

"Replacement Sheets"
Applicants: David Baltimore, et al.
U.S. Serial No. 08/813,323
Filing Date: March 10, 1997
Group Art Unit: 1642 @ (703)-305-2008
Title of the Invention: Truncated Crafl
Inhibits CD40 Signaling Sheet 1 of 11

# 1/11

### FIGURE 1

M H	MESSKKMDAAGTLQPNPPLKLQPDRGAG.SVLVPEQGGYKEKFVKTVEDK	49
M H	YKCEKCRLVLCNPKQTECGHRFCESCMAALLSSSSPKCTACQESIIKDKV	99
M H	FKDNCCKREILALQVYCRNEGRGCAEQLTLGHLLVHLKNECQFEELPCLR	149
M H	ADCKEKVLRKDLRDHVEKACKYREATCSHCKSQVPMIKLQKHEDTDCPCV	199
M H	VVSCPHKCSVQTLLRSELSAHLSECVNAPSTCSFKRYGCVFQGTNQQIKA	249
M H	HEASSAVQHVNLLKEWSNSLEKKVSLLQNESVEKNKSIQSLHNQICSFEI	299
M H	EIERQKEMLRNNESKILHLQRVIDSQAEKLKELDKEIRPFRQNWEEADSM	349
M H	KSSVESLQNRVTELESVDKSAGQAARNTGLLESQLSRHDQTLSVHDIRLA	399
M H	DMDLRFQVLETASYNGVLIWKIRDYKRRKQEAVMGKTLSLYSQPFYTGYF	449
M H	GYKMCARVYLNGDGMGKGTHLSLFFVIMRGEYDALLPWPFKQKVTLMLMD	499
M H	QGSSRRHLGDAFKPDPNSSSFKKPTGEMNIASGCPVFVAQTVLENGTYIK	549
M H	DDTIFIKVIVDTSDLPDP	567



"Replacement Sheets"
Applicants: David Baltimore, et al.
U.S. Serial No: 08/813,323
Filing Date: March 10, 1997
Group Art Unit: 1642 @ (703)-305-2008
Title of the Invention: Truncated Crafl
Inhibits CD40 Signaling Sheet 2 of 11

2/11

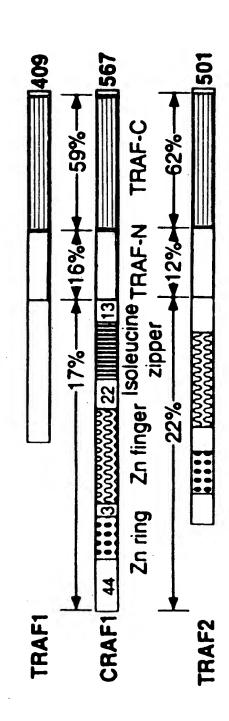


FIGURE 2A



"Replacement Sheets"

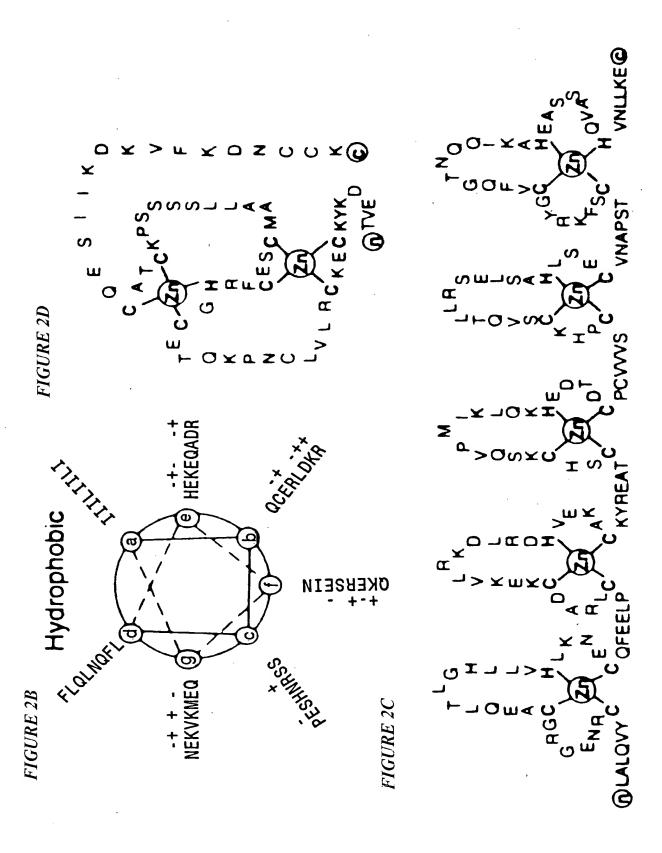
Applicants: David Baltimore, et al.
U.S. Serial No: 08/813,323

Filing Date: March 10, 1997

Group Art Unit: 1642 @ (703)-305-2008

Title of the Invention: Truncated Crafl
Inhibits CD40 Signaling Sheet 3 of 11

3/11





"Replacement Sheets"
Applicants: David Baltimore, et al.
U.S. Serial No. 08/813,323
Filing Date: March 10, 1997
Group Art Unit: 1642 @ (703)-305-2008
Title of the Invention: Truncated Craft
Inhibits CD40 Signaling Sheet 4 of 11

4/11

CD40 Fas TNFαRII Homo- binding binding dimerization	+	ı	ı	+	+
TNF&RII binding	•	Q	Q	Q	Q
Fas binding	. 1	Q	Q	Q Q	Q
CD40 binding	+	•	•	+	+
	(324–567) III	C26NX (324-410)	C26ANB (324-487)	TRAF domain	C26XC (415–567)

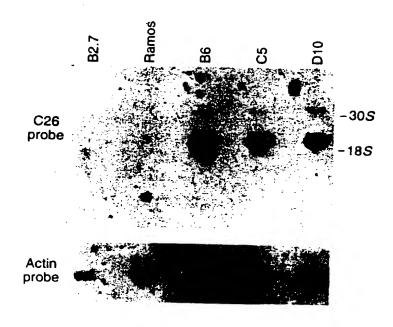
FIGURE



"Replacement Sheets"
Applicants: David Baltimore, et al.
U.S. Serial No: 08/813,323
Filing Date: March 10, 1997
Group Art Unit: 1642 @ (703)-305-2008
Title of the Invention: Truncated Crafl
Inhibits CD40 Signaling Sheet 5 of 11

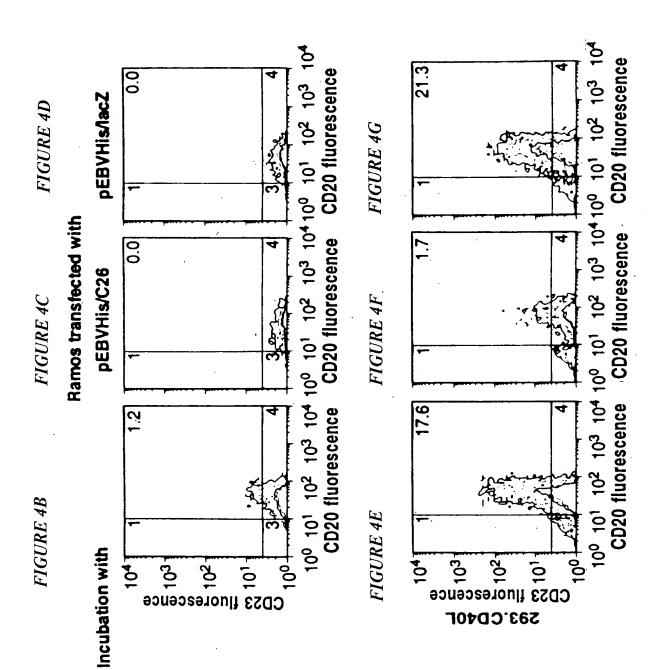
5/11

### FIGURE 4A



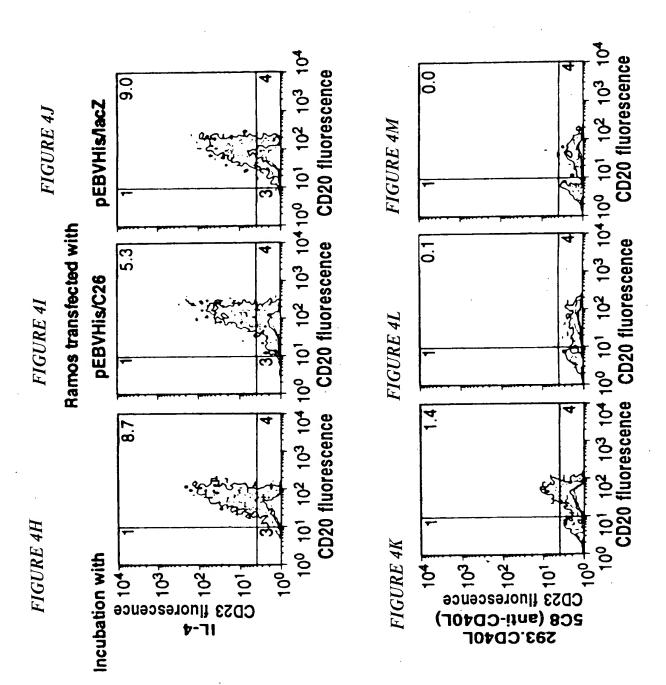














"Replacement Sheets"
Applicants: David Baltimore, et al.
U.S. Serial No: 08/813,323
Filing Date: March 10, 1997
Group Art Unit: 1642 @ (703)-305-2008
Title of the Invention: Truncated Crafl
Inhibits CD40 Signaling Sheet 8 of 11

# 8/11

TCCCTTCCGG AGGCTTGCTG CTTGGCCGAC GTCTCTAC AGCTTCTCCC GTTTCCTAAG ACCCCTAAAG CTACAAGGAG GGTGCTGTGC CGCCCTGCTG CAAGGTGTTT GAATGAAGGC AAATGAATGT GAGAAAAGAC TCACTGCAAG CTGTGTGGTG GAGTGCACAC CTGCGTTTTT GCACGIGAAC SAATGAAAGT TGAGATCGAG CCTGCAGCGG SAACCGAGTG GCTGCATGGC ACGGGGTGCT TCTACTGTCG CAGATTGTCC AGTCCCTCCA CTCGCAACAC ATGACATCCG GGAAGACCCT TCTGTGTGGA CAGAATTTCA AGCCTAACCC AGCAAGGAGG AGTGCCGCCT TCATCAAAGA TGCACCTAAA AAAAAGTACT CCACGTGCAG GGAGTGAGTT AGCGCTATGG CCGCGGTACA CCCTGCTGCA TCTGCAGCTT AGATCCTTCA AGGAGATCCG TIGAGIGITC GCCAGCTACA AGCAGTGTGG GCCGTCATGG GCCCTTCAGG CATGAAGACA ACTCTTCTAA TGTAGTTTTA AACGAGICCA GAACTGGACA GGCCAGGCGG GGCTCCGACG GCGCACGGCA CTCGTGCCGG AAGTGCGAGA TTCTGCGAGA CATCTGCTGG GACTGCAAAG TACCGCGAGG GAGGCCAGCT AAGAAGGTTT CACAACCAGA CGGCCGAACG GGCACACTGC CAAGAAAGCA CAAAAGTGCG GAAGCAGGAG CTCCCTGGAG CAGCATGAAG TGACCAGACG CCTCGAGACC ACTGCAGAAA CAGCGTTCAG CCAAAGCCTG TGGCCACCGG AGAGATTCTG GACTCTGGGA GGCCTGTAAA CCCCAGCACC CAAGGCCCAT GCTCCGAAAC GAAACTGAAA AGGCTGGCAC ACTCCTTACA GGATGCTGCT AGGGTCCGTG AGACAAGTAC CACAGCGTGC TCTGCGTGCC CGGAGCAGCT AGACGGAGTG GTCCAAAATG GCTGCAAGAG AACTTCCCTG CCATGATCAA AGGAAGCGGA AGAGCGTAGA TGAGCCGGCA GGTTCCAGGT ACAAGCGCCG AGACGGTGGA CTCACAAGTG GTGTCAATGC ACGTGGAAAA ACCAGCAGAT AGTGGAGCAA ACAAGAGCAT AGAAGGAGAT GCCAAGCAGA GATGCGCGCG TTGAAGGATA GCTTCTCTAG GCAAAAAGAT ATCGCGGCGC ACTGAGCTGG SAGTCCCAGC ATGGACCTGC ATCCGTGACT CAGTTTGAGG TTGCGGGATC AGCCAAGTGC GTATCCTGCC ITGTCCGAGT CAGGGTACAA CTGCTGAAGG GTTGAGAAAA GTAATCGACA CAGAACTGGG CTGCAGCCTG AGCTCCTCCA AGAGGTTGTG ATTGAGAGGC GGCGGCGGAG TCCCTTCTGA ATGGAGTCAA AAGTTTGTGA AACCCGAAGC AAGGATAATT TCCCCATTAC 1141 .261 1321 .381 441 901 1081 1201 181 241 541 661 721 781 841 961 021 121 301 361 421 481 601

GGGTACAGGG

GGCGCCTCG

GCGCCTGAGC



"Replacement Sheets"
Applicants: David Baltimore, et al.
U.S. Serial No: 08/813,323
Filing Date: March 10, 1997
Group Art Unit: 1642 @ (703)-305-2008
Title of the Invention: Truncated Crafl
Inhibits CD40 Signaling Sheet 9 of 11

# 9/11

IGAAGGATTA ATTTAAAAG CCTCGAGGGC GCGTGGAGAA GATGGATCAG SAGAGCCACA TTCCTTAACT CGTTTCAAAT CAGCAGCTTC CATAGTGGAT AGAAGGTAAC AGGACCTTGT CGCCCAAACT TTTCATTTC ATGATTTTC GTGTACAGTA GGTGCAACTC TTGTCATTAT CACTTATGCT ACCCCAACAG CAGTCTTTGT TGGATTCAGC GCCCTCAGAA TGGCTGGCAG ACACCCACTC TTATTAAGGT GTGCCAGGGT CAGAGAAGGT AAAAAGAAAC TAGCTGGAGT TAAAATTCAG GGAGGTCGAG TAAACTAGCC TTCAAGCCTG GGAGGTCCTC TCGCTGTTTT CAGAAAGTGA AGCAGGGCGG TATAAGATGT TCTGGCTGCC GATACAATCT CATGTGGGGG ATACTCATCC SAATATCGCC CTGACAAGAA AGGAGGAGAA GATTTTCTAA ATACTGCTGT CATATATGCT GACACACTIG GCCGTTCAAG GGGAGATGCG TATTAAAGAT STGTCTTCAC TTATTTGGC AAGGTGGGAA AAAGAGAACA AAACAATCAC TCTACACAGG TGGGGAAAGG TGTTGCCATG CCGGAGAGAT TGCCTGACCC GGGTGAGCTA AAGCAGCCGG GACCCCAACG AACAAGATAA GCCGTCATCT ACGGGACGTA GTCTATTTA TTAAAATCAT GGCGCAGAGG TAAACACCAA TCTCTGGGG ATTGTATATT GGGTCCTCTC AAGAAACCCA GTTCTAGAGA ACCTCGGATC TGTGAAAACA TTATCCATC ATCTAGTATT AGCCAGCCTT GGGGACGGAA TATGATGCTC 2161 341 921 1981 2041 2101 2221 2281 621 681 741 1801 861

FIGURE 5A



"Replacement Sheets"
Applicants: David Baltimore, et al.
U.S. Serial No: 08/813,323
Filing Date: March 10, 1997
Group Art Unit: 1642 @ (703)-305-2008
Title of the Invention: Truncated Crafl
Inhibits CD40 Signaling Sheet 10 of 11

# 10/11

ATGGGGCAGC AGACCGTGGA AGACCGAGTG GCTGCAAGAG CTCACAAGTG ACAAGCGGCG GCCGGGACTT TGAGCCGGCC AAAAGATGGA GTAGTGCTGG GTCCAAAATG AACTTCCATG ACGTGGAGAA CGATGATCGC GTGTCAATGC ACCAGCAGAT AGTGGAGCAA ACAAGAGCAT AAAAGGAAAT GCCAAGCAGA AGGAAGCAGA AGAGCGTGGA TGAGCCGGCA GCTTCCAGGT CAGAGCAGTT TTGCAGCCCA GAGTCGAGTA CATTTGAAG CAGGGGACAA CCCCCCGTC CTGCTGAAGG STAGAAAAA ACCGAGCTGG ATTCGCGACT 222252522 CACACTGACC AAGTTTGTGA AGCCCGAAGC AAGGATAATT AGAGGTTGTG CTGCGAGACC AGTCAGGTTC GTGTCCTGCC TTGTCAGAGT ATTGAGAGAC GTGATCGACA CAGAACTGGG GAGTCCCAGC ATGGACCTGC AGCTCTTCAA CGAGCCGGGG CATCTGGAAG GCTAAAGCTG TTACAAGGAA SCCCIGCIG GAACCGCGTG AGGCCTGCTG CCTAGCCGAC GCTCTTCCCC GAGGACGCGC TCCTAAAATG GGTGCTGTGC TAAGGTGTTT SAATGAAAGC AAATGATTGC SAGGAAAGAC CCACTGCAAG CTGCGTGGTG CTGCGTTTTT SCACGTCAAC SAATGAAAGT TGAAATTGAA TTTACAGCGA CCCTTCCGG GAGTGCACAC CCCCTCCTCC GCCCCCTGCC GACCGCGGCG AACTCCTCT CTAACCCGCC TGCATTTAAA AGCGCTATGG CCGCCGTGCA CCTTGTTGCA TATGTAGCTT ACGACATCCG ATGGAGTGCT AACAAGGAGG AGTGCCACCT TCTATTGTCG AAAAGGTCTT CCACATGCAG CCGACTGTCC GGAGCGAGTT AGGAGATCCG AGTCCCTCCA CTCGGAACAC SCTGCATGGC TCGTTAAAGA AAATCCTTCA GCCAGCTACA TGTAGTTTTA CTGAGTGTGC GGCAGCCGCG GGCCCCGCGAG CAAGAGAGCA CATCTGCTGG SACTGCAAAG AATGAATCCA GAGCTTGACA AGCAGCGTGG GGGCAAGTGG 2299292992 SAACGCTGCG GCCTGCAGA TTTGTCCTG AAGTGTGAGA TTCTGCGAGA GCTCTTCAGA TACCGGGAAG CACGAAGACA ACTCTCCTGA SAGGCCAGCT CACAATCAGA AAGAAGGTTT CGGGGGAGCG IGACCAGATG CCTGGAGACC TCCAGCCGGC AGAAATTCTG CAGCGTCCAG CTCGCTCGAA CAAGAGTGCG CCGGGGGAGCA TGGGCACCGC CCCCAGCACC CAAGGCCCAC ACAAAGTTTG GCTTCGAAAT SAAACTGAAG CAGCATGAAG GAGCGGCGAC CICICCIGGC GGACAAGTAC AACGCTGGGA TGTGCGTCCT GGCGTGTAAA SCTGCAGAAA SACGCCAGTT TACAGCGTGT 721 781 961 1021 1201 241 301 361 481 541 601 661 841 901 1081 1141 1261 1321



FIGURE 6B

"Replacement Sheets"
Applicants: David Baltimore, et al.
U.S. Serial No: 08/813,323
Filing Date: March 10, 1997
Group Art Unit: 1642 @ (703)-305-2008
Title of the Invention: Truncated Crafl
Inhibits CD40 Signaling Sheet 11 of 11

### 11/11

GGAAAACATA TGGGGAAGGG SAGGAAGCGG TAAATATTGC AAAAACACAC SAGAATTTAT TTTGTTTCA TCTACACTGG TGCTTCCTTG ATGGGACATA TGCCGGATCC CACGTTTTAT CTGGAGAGAT SATTTGAACC GACGICATIT ACTTCGGATC TCCTCTGGGG TTGTGAGACG TGAACACCAA TAAGTAAAAG AAGAGTGCAA GTTCTAGAAA SCACACCTGA TTCAACAAGA AAAAATTCC AGCCAGCCTT GGGTCCTCTC AAGAAGCCCA TAATTAAGGT GGGGACGGGA TATGATGCCC GICCCTITAC CATAGTGGAT AGAAGGCAAC GTCAGCATGT TCTAAAATTC CCAAAAAAA CTACCTGAAC GATGGATCAG GGCCCAAACT GAAAAGGACC CCACGCGTGA AAGATCTAGT GCGTGGAGAA CAGCAGCTTC TTATTTATCC TCCTTAAACT TTCATTTTTA AGCTGGACAT ATATCTTCTT GGAAGACCCT CAGTCTTTGT TTATTAAAGT TGGATTTAGC CICGCGCICA GCGGGAGGAG CTCTGAAGAA TGATTTTTCT TTTAAGGCCT TTGTCATCAT CACTCATGCT ACCCCAACAG GTGCCAGGGT CCACACTICA TGCAATTCTG ATTGTCTATT GCCGTCATGG GATACAATTT GCTGGGGAGG CACTGAGGTC ACGCGTGCCG AAAAGAAACA ACGTGGGGAT TATAAGATGT CAGAAAGTGA TTCAAGCCCG TCTGGCTGCC GGTTTTCATT TCGCTGTTTT GAAGCAGGAG CAGAAGGCGG AATAGACTAG TGTCAGAGAA TATGCTAAAC ACACACAC GAAATAGTAA AATACAGTAT GGTCTGTCTT TTACTTTGGT SACGCACTTG GCCGTTTAAG GGGAGATGCA GAATATCGCC TATTAAAGAT CTGATAAGTA 1621 1861 2041 2101 2161 2221 2281 2341 401 1741 1801 1921 1981 1561 1681